

Please amend the specification page 5, line 1 as shown.

Thanks. Benku Ro 7/14/2007

Application/Control Number: 10/583,431

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Art Unit: 2837

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

The application has been amended as follows:

In the specification:

Page 5, line 1, change "motor 54" to --motor 52--.

The following is an examiner's statement of reasons for allowance: No prior art teaches a proximity sensor for a vehicle window having two electrodes with capacitance CE1/2, a first switch and a second each connected to the respective two electrodes for switching the connection of the electrodes to either one of a reference capacitor, a ground, or a voltage reference source for charging the capacitance and for transferring the charge to a reference capacitor.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

shown) which includes an electric motor ~~54~~ (see Fig. 3) as the motive driving source, as well known in the art, per se. The motor 52 is controlled in part by a non-contact obstruction sensor or anti-pinch assembly 10, the particulars of which are described in greater detail below. The anti-pinch assembly 10 prevents the glass panel 16 from pinching or crushing a foreign object such as a finger (not shown) that may be extending through the aperture 14 when the panel nears its closed position. It will be appreciated by those skilled in the art that the anti-pinch assembly 10 can be applied to any motorized or automated closure panel structure that moves between an open position and a closed position. For example, a non-exhaustive list of closure panels includes windowpanes, doors, lift gates, sunroofs, and the like. For ease of description, the remainder of this disclosure will focus on the windowpane and window frame combination.

[0011] The anti-pinch assembly 10 includes two strip electrodes 24a and 24b such as wires that are preferably embedded in a non-conductive casing 18 mounted near or on the upper part of window frame 40. As shown in Fig. 2, the casing 18 is preferably formed from an oblong elastomeric trim piece 20 that has an integrally formed cavity 22. The cavity 22 enables the trim piece 20 to more readily deform, thus enabling the distance or space between the two electrodes 24a and 24b to be more readily altered. The trim piece 20 can be part of the window water sealing system, i.e., form part of a seal, or can form part of the decorative fascia of the vehicle. Figure 5 shows a preferred embodiment of the trim piece 20 which forms part of a sealing system 37 of the window frame 40. The sealing system 37 is preferably formed from a flexible, and/or low durometer compound, in a range of less than 40 to 50 shore. The flexibility of the sealing system 37 can also be controlled by the cross-sectional configuration, including controlling the thickness of the arms and walls supporting the electrodes. In the embodiment illustrated in Fig. 5, the electrodes 24a and 24b are molded directly into the sealing system 37.